

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL. SEE STANDARD SHEET M703.15C.

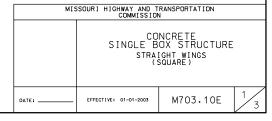
LAP ALL LONGITUDINAL BARS A MINIMUM OF 610 mm AT SPLICES.
MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 40 mm UNLESS
OTHERWISE SHOWN.

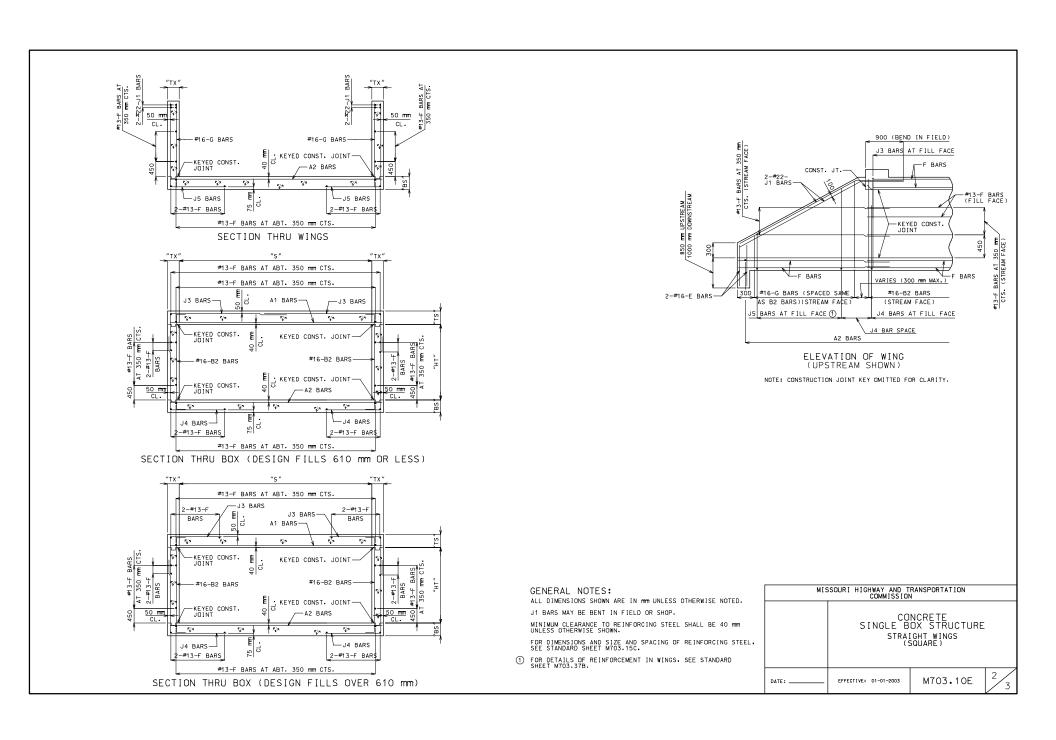
JOINT FILLER SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH 3.5 mm DIA. (10 GAGE) COPPER WIRE OR 2.8 mm DIA. (12 GAGE) SOFT DRAWN GALVANIZED STEEL WIRE.

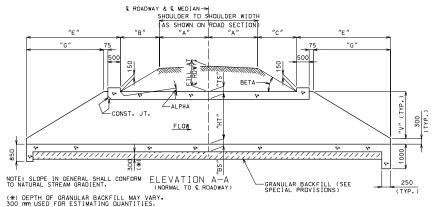
BEVELED HEADWALL TO BE LOCATED AT UPSTREAM END.

A FILTER CLOTH 1 METER IN WIDTH AND DOUBLE THICKNESS SHALL BE APPLIED TO ALL TRANSVERSE JOINTS IN THE TOP SLAB AND SIDEWALLS. THE MATERIAL SHALL BE CENTERED ON THE JOINT AND THE EDGES SEALED WITH A MASTIC OR WITH TWO SIDED TAPE. THE FILTER CLOTH SHALL BE A GEOTEXTILE MEETING THE APPROVAL OF THE ENGINEER AND HAVING GRAB TENSILE STRENGTH OF 800 N. (ASTM D-4632) AND AN APPARENT OPENING SIZE OF 300 TO 150 MIGROMETERS (ASTM 0-4751). NO DIRECT PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING FILTER CLOTH.

FOR MORE DETAILS AND SECTION THROUGH BOX. SEE M703.10E SHEET 2 OF 3.









l	GE	ENERAL DATA TABLE	
l	VARIABLE	DIMENSION (mm)	
l	ALPHA	SEE EQUATIONS	
l	BETA	SEE EQUATIONS	
l	"B"	SEE EQUATIONS	
l	"c"	SEE EQUATIONS	
l	"E "	G + 575	
l	"F "	S + 2TX	
l	"G"	2V	
l	″L ″	2A + B + C + 2E	
ı	″v ″	HT + TS - 300	

GENERAL NOTES:

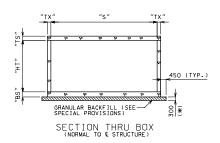
DESIGN SPECIFICATIONS: AASHTO - 1996 LOAD FACTOR DESIGN DESIGN UNIT STRESSES: CLASS B-1 CONCRETE f'c = 28 MPa REINFORCING STEEL (GRADE 420), fy = 420 MPa

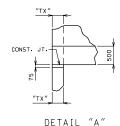
DESIGN LOADING: EARTH 1900 kg/m² EQUIVALENT FLUID PRESSURE 4.71 kPa/m (MIN.) - 9.42 kPa/m (MAX.)

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED. THIS DRAWING IS NOT TO SCALE. FOLLOW DIMENSIONS.

FOR DIMENSIONS NDT SHOWN, SEE STANDARD SHEETS M703.10E, SHEETS 1 & 2 OF 3 OR M703.15C.

NOTE: WHEN ALTERNATE PRECAST BOX SECTIONS ARE USED. THE MINIMUM BARREL LENGTH MEASURED ALONG THE SHORTEST WALL FROM THE FIRST JOINT TO THE OUTSIDE OF THE HEADWALL SHALL BE 950 mm. REINFORGEMENT AND DIMENSIONS FOR THE WINGS AND HEADWALLS SHALL BE IN ACCORDANCE WITH MISSOURI STANDARD PLANS DRAWINGS.





-DETAIL € STRUCTURE -PLAN SHOWING LAYOUT DIMENSIONS

"TX"

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비

21 ΞΙ

45Ql

€ STATION-

€ STRUCTURE

ALONG

LENGTH

TOTAL

EQUATIONS FOR COMPUTING LENGTH OF BARRELS

LET ALPHA = ANGLE OF SLOPE OF BARREL WITH HORIZONTAL ALONG $\mathfrak Q$ OF CULVERT.

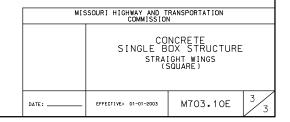
LET BETA = ANGLE OF SLOPE OF FILL NORMAL TO & ROADWAY.

"B" OR "C" = $\frac{(\texttt{FILL} \ \texttt{AT} \ \ \& \ \texttt{ROADWAY}) \pm (\texttt{CROSS} - \texttt{SLOPE}) \ \ X \ "A" \pm \ A \ \ \texttt{TAN(ALPHA)}}{\texttt{TAN(BETA)} \ \ \pm \ \texttt{TAN(ALPHA)}}$

"B" OR "C" = HORIZONTAL DISTANCE FROM EDGE OF SHOULDER TO HEADWALL NORMAL TO & OF ROADWAY.

DEFINITIONS

CROSS-SLOPE: SLOPE OF EACH PART OF THE ROADWAY INCLUDING ROADWAY CROWN, SHOULDER SLOPE, AND/OR SUPERELEVATION. SEE DESIGN ROADWAY CROSS SECTION FOR LANE AND SHOULDER WIDTHS AND SLOPES.



-CONST. JT. (TYP.)

−€ ROADWAY OR € MEDIAN

BACKFILL

GRANULAR

|片

12

ΙΨ

450